



- NOTES
- CUT SHEAR STUDS TOP OF EXISTING BEAMS. GRIND SMOOTH AS REQ'D. INSTALL NEW 3/4" x 2" STUDS TO TOP OF 1/2" PLATE.
 - AVOID DAMAGE TO REBAR. REBAR MAY BE BENT UP TO PROVIDE ACCESS FOR CONSTRUCTION. CUT BARS SHOULD BE SPLICED TO DEVELOP THEIR STRENGTH.
 - PROVIDE THICKER PLATE AS REQUIRED TO SUIT FIELD CONDITIONS.

Sheet 33 of 33

THE PORT AUTHORITY OF NY & NJ

ORIGINAL SIGNED & SEALED BY
N.Y. P.E. (OR R.A.)

Joseph R. Long & Associates, Inc.
consulting engineers
One Pennsylvania Plaza
New York, New York 10007-0045
Tel: (212) 512-7400, Fax: (212) 512-7383

THE OFFICE OF
BRIAN ELLIOT
LESCOWITZ

ARCHITECTS & PLANNERS
200 WEST 40TH STREET, NEW YORK, NY 10018
TEL: (212) 512-7400 FAX: (212) 512-7383

LESLIE E. ROBERTSON
ASSOCIATES, R.L.L.P.
CONSULTING STRUCTURAL ENGINEERS
200 WEST 40TH STREET, NEW YORK, NY 10018
TEL: (212) 512-7400 FAX: (212) 512-7383

I HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF ONE OF THE CONTRACT DRAWINGS CONSTITUTING A PART OF CONTRACT NO. WTC-945-071 IN THE FORM IN WHICH SAID DRAWINGS EXIST AT THE TIME THE SAID CONTRACT WAS EXECUTED BY THE PARTIES.

DATE 11/17/98 *William A. Adams* SPEC. WRITER
DATE 4/16/98 *R. L. Lescowitz* ENGINEER OF DESIGN

No.	Date	Revision	Approved
1	11/17/97	ISSUED FOR BID	

Engineering Department
Design Divisions

The World Trade Center

STANDBY POWER
5 WORLD TRADE CENTER

STRUCTURAL

5 WTC BULKHEAD
SECTIONS & DETAILS

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

WTS	CIF	RZ
Designed by	Drawn by	Checked by

Date 11/17/97 Scale NTS
Contract Number WTC-945.071 Drawing Number S2-04